



Government City College (A)
Nayapul, Hyderabad
 Affiliated to Osmania University
 Accredited with B⁺⁺ Grade & CGPA 2.76



PROGRAMME SPECIFIC OUTCOMES
LIFE SCIENCES & APPLIED SCIENCES

<p>Botany- Bio-Chemistry- Bio-Technology</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Will be able to demonstrate an understanding of fundamental biochemical principles such as structure and function of biomolecules, metabolic pathways, acquire basic knowledge on fundamentals of microbiology, enzymology, immunology, molecular biology, endocrinology and genetic engineering, get equipped with the basic biochemical tools and standard operation procedures and will be able to use in institutes wherever necessary, will develop analytical thinking in execution of biochemical experiments and data interpretation.</p> <p>Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome,</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Horticulture/ Miniature plant nurseries/Mushroom cultures etc.</p>
<p>Botany- Bio-Chemistry- Chemistry</p>	<p>PSO1</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial</p>

	<p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Will be able to demonstrate an understanding of fundamental biochemical principles such as structure and function of biomolecules, metabolic pathways, acquire basic knowledge on fundamentals of microbiology, enzymology, immunology, molecular biology, endocrinology and genetic engineering, get equipped with the basic biochemical tools and standard operation procedures and will be able to use in institutes wherever necessary, will develop analytical thinking in execution of biochemical experiments and data interpretation.</p> <p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts, and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Make aware and handle the sophisticated instruments/equipment</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Horticulture/ Miniature plant nurseries/Mushroom cultures etc.</p>
	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Make aware and handle the sophisticated instruments/equipment</p> <p>Will be able to demonstrate an understanding of fundamentals of biochemistry, acquire basic knowledge on structure, composition, nutritive value of various foods, understand the basics of meal planning and special diets based on the conditions of diseases, get</p>

<p>Botany- Chemistry- Applied Nutrition</p>	<p>PSO4</p>	<p>equipped with the basic knowledge of clinical Dietetics, hospital administration, food hygiene and will be able to use in institutes wherever necessary, will develop analytical thinking in diet calculations and preparation of therapeutic diets.</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Mushroom cultures/Clinical Dietetics etc.</p>
<p>Botany- Chemistry- Bio-Technology</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts, and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, will learn to handle the sophisticated instruments/equipment</p> <p>Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome, on completion students would be able to appreciate and execute professional roles biotechnology professionals and employees in various industries, regulators, researchers, educators</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Mushroom cultures/Bio-Fertilizers etc.</p>

<p>Botany- Psychology (MOOCs) Bio-Technology</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, Will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Understand the dynamic field of psychology with an overview on traditional and contemporary approaches to psychology, get orientation about the biological basis of behaviour and sensory experiences , acquire knowledge on basic cognitive concepts of attention, perception, Memory, thinking, reasoning and learning, get acquainted with the concepts of motivation and understand the development of emotions, get aware of concept of Intelligence, development of tests and types of tests used to assess intelligence</p> <p>Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome, on completion students would be able to appreciate and execute professional roles biotechnology professionals and employees in various industries, regulators, researchers, educators</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Mushroom cultures/Bio-Fertilizers etc.</p>
	<p>PSO1</p> <p>PSO2</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, Will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship</p>

<p>Botany- Zoology- Applied Nutrition</p>	<p>PSO3</p> <p>PSO4</p>	<p>between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc., understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Will be able to demonstrate an understanding of fundamentals of biochemistry, acquire basic knowledge on structure, composition, nutritive value of various foods, understand the basics of meal planning and special diets based on the conditions of diseases, get equipped with the basic knowledge of clinical Dietetics, hospital administration, food hygiene and will be able to use in institutes wherever necessary, will develop analytical thinking in diet calculations and preparation of therapeutic diets.</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Mushroom cultures/Bio-Fertilizers/Clinical Dietetics etc.</p>
<p>Botany- Zoology- Bio-Technology</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, Will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc.,. understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses,</p>

	PSO4	<p>awareness of useful/harmful agents & its impact on human genome, on completion students would be able to appreciate and execute professional roles biotechnology professionals and employees in various industries, regulators, researchers, educators</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Mushroom cultures/Bio-Fertilizers etc.</p>
Botany- Zoology- Chemistry	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, Will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc. understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts, and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Will learn to handle, operate the sophisticated instruments/equipment</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Mushroom cultures/Bio-Fertilizers etc.</p>

<p>Botany- Zoology- Computer Science</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, Will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Understand the essential computer parts and their importance; distinguish different input and output devices and connecting peripheral devices, understand the advantages and characteristics of different mediums of data storage, can perform some simple trouble shooting, understand different of operating systems, basic programming theories, techniques, and algorithms, to use the MS-Office and C – Programming.</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries etc.</p>
<p>Botany- Zoology- Psychology(MOOCs)</p>	<p>PSO1</p> <p>PSO2</p>	<p>Acquire critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level, Will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms, Will be able to explain how Plants function at gene, genome, cellular and tissue level, relate the physical features of the environment to the structure of populations, communities, and ecosystems, Will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the</p>

	<p>PSO3</p> <p>PSO4</p>	<p>rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Understand the dynamic field of psychology with an overview on traditional and contemporary approaches to psychology, get orientation about the biological basis of behaviour and sensory experiences, acquire knowledge on basic cognitive concepts of attention, perception, Memory, thinking, reasoning and learning, get acquainted with the concepts of motivation and understand the development of emotions, get aware of concept of Intelligence, development of tests and types of tests used to assess intelligence</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Horticulture/ Miniature plant nurseries/ Counselling centers etc.</p>
<p>Micro Biology- Bio-Chemistry Applied Nutrition</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.</p> <p>Will be able to demonstrate an understanding of fundamental biochemical principles such as structure and function of biomolecules, metabolic pathways, acquire basic knowledge on fundamentals of microbiology, enzymology, immunology, molecular biology, endocrinology and genetic engineering, get equipped with the basic biochemical tools and standard operation procedures and will be able to use in institutes wherever necessary, will develop analytical thinking in execution of biochemical experiments and data interpretation.</p> <p>Will be able to demonstrate an understanding of fundamentals of biochemistry, acquire basic knowledge on structure, composition, nutritive value of various foods, understand the basics of meal planning and special diets based on the conditions of diseases, get equipped with the basic knowledge of clinical Dietetics, hospital administration, food hygiene and will be able to use in institutes wherever necessary, will develop analytical thinking in diet calculations and preparation of therapeutic diets.</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques</p>

		and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Clinical dietetics/Clinical Diagnostics etc.
Micro Biology- Bio-Chemistry- Bio-Technology	PSO1	Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.
	PSO2	Able to demonstrate an understanding of fundamental biochemical principles such as structure and function of biomolecules, metabolic pathways, acquire basic knowledge on fundamentals of microbiology, enzymology, immunology, molecular biology, endocrinology and genetic engineering, get equipped with the basic biochemical tools and standard operation procedures and will be able to use in institutes wherever necessary, will develop analytical thinking in execution of biochemical experiments and data interpretation.
	PSO3	Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome
	PSO4	Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Bio-fertilizers/ Clinical Diagnostics etc.
	PSO1	Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.
	PSO2	Will be able to demonstrate an understanding of fundamental biochemical principles such as structure and function of biomolecules, metabolic pathways, acquire basic knowledge on fundamentals of microbiology, enzymology, immunology, molecular biology,

		etc.
Micro Biology- Chemistry- Applied Nutrition	PSO1	Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.
	PSO2	Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Will learn to handle, operate the sophisticated instruments/equipment.
	PSO3	Will be able to demonstrate an understanding of fundamentals of biochemistry, acquire basic knowledge on structure, composition, nutritive value of various foods, understand the basics of meal planning and special diets based on the conditions of diseases, get equipped with the basic knowledge of clinical Dietetics, hospital administration, food hygiene and will be able to use in institutes wherever necessary, will develop analytical thinking in diet calculations and preparation of therapeutic diets.
	PSO4	Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Clinical Diagnostics/Clinical Dietetics etc.
	PSO1	Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.

<p>Micro Biology- Chemistry- Bio-Technology</p>	<p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Will learn to handle, operate the sophisticated instruments/equipment.</p> <p>Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome, on completion students would be able to appreciate and execute professional roles as biotechnology professionals and employees in various industries, regulating agencies</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Bio-fertilizers/Clinical Diagnostics etc.</p>
<p>Micro Biology- Zoology- Applied Nutrition</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p>	<p>Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Will be able to demonstrate an understanding of fundamentals of biochemistry, acquire basic knowledge on structure, composition, nutritive value of various foods, understand the basics of meal planning and special diets based on the conditions of diseases, get equipped with the basic knowledge of clinical Dietetics,</p>

	PSO4	<p>hospital administration, food hygiene and will be able to use in institutes wherever necessary, will develop analytical thinking in diet calculations and preparation of therapeutic diets.</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Fisheries/Sericulture/Clinical Diagnostics/Clinical Dietetics etc.</p>
<p>Micro Biology- Zoology- Bio-Technology</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome, on completion students would be able to appreciate and execute professional roles biotechnology professionals and employees in various industries, regulating agencies</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Fisheries/Sericulture/Clinical Diagnostics/Bio-fertilizers etc.</p>

<p>Micro Biology- Zoology- Chemistry</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment.</p> <p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Will learn to handle, operate the sophisticated instruments/equipment.</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Fisheries/Sericulture/Bio-chemists/Clinical Diagnostics etc.</p>
<p>Micro Biology- Zoology- Computer Science</p>	<p>PSO1</p> <p>PSO2</p>	<p>Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the</p>

	<p>PSO3</p> <p>PSO4</p>	<p>conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment.</p> <p>Understand the essential computer parts and their importance; distinguish different input and output devices and connecting peripheral devices, understand the advantages and characteristics of different mediums of data storage, can perform some simple trouble shooting, understand different of operating systems, basic programming theories, techniques and algorithms, to use the MS-Office and C – Programming</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Bio-chemists/Bio-fertilizers/Clinical Diagnostics etc.</p>
<p>Micro Biology- Zoology- Psychology(MOOCs)</p>	<p>PSO1</p> <p>PSO2</p> <p>PSO3</p> <p>PSO4</p>	<p>Understand nature of science and scientific enquiries, and have mastered a set of fundamental skills and effect of microorganisms on everyday life, health, food, sanitation, genetic engineering, understand the fundamental biochemical principles, such as the structure/function of biomolecules and carryout experiments, analyze the basic concepts of hereditary and the process of inheritance, understand the functions and molecular structures of DNA and RNA and how they serve as genetic information and concept of plasmids and transposons.</p> <p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment</p> <p>Understand the dynamic field of psychology with an overview on traditional and contemporary approaches to psychology, get orientation about the biological basis of behaviour and sensory experiences , acquire knowledge on basic cognitive concepts of attention, perception, Memory, thinking, reasoning and learning, get acquainted with the concepts of motivation and understand the development of emotions, get aware of concept of Intelligence, development of tests and types of tests used to assess intelligence</p> <p>Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped</p>

		<p>to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Fisheries/Sericulture/Clinical Diagnostics/Clinical Counseling etc.</p>
	<p>PSO1</p> <p>PSO2</p>	<p>Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment.</p> <p>Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Will learn to handle, operate the sophisticated instruments/equipment</p>

Zoology- Chemistry- Applied Nutrition	PSO3	Will be able to demonstrate an understanding of fundamentals of biochemistry, acquire basic knowledge on structure, composition, nutritive value of various foods, understand the basics of meal planning and special diets based on the conditions of diseases, get equipped with the basic knowledge of clinical Dietetics, hospital administration, food hygiene and will be able to use in institutes wherever necessary, will develop analytical thinking in diet calculations and preparation of therapeutic diets.
Zoology- Chemistry- Bio-Technology	PSO4	Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Fisheries/Sericulture/Bio-chemists/Clinical Dietetics etc.
	PSO1	Gain foundational knowledge of the diversity in fauna, especially local fauna, evolution patterns, features of morphology, will be able to analyze the relationship between plants and animals, global environmental issues, extinct species and realize the rights and responsibilities of individuals in the conservation of our biosphere, understand the basic concepts in cell biology, genetics, evolution, immunology, physiology etc, understand the application of biological sciences in aquaculture, apiculture, sericulture, fisheries and skill based knowledge for source of income and self-employment
	PSO2	Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Will learn to handle, operate the sophisticated instruments/equipment.
	PSO3	Understand the basic life processes, metabolic activities, and handling of equipment, identification of appropriate experiments for research, comprehensive understanding of chemical basis of heredity, acquiring skills in genetic methodologies, its applications in other areas, systemic understanding of molecular & immunologic responses, awareness of useful/harmful agents & its impact on human genome,
	PSO4	Will be able to perform short research projects or provide assistance in clinical trials, research using the techniques and skills acquired in the program and will be equipped to take up a suitable position in academia or industry, and to pursue research or a career in entrepreneurship through Fisheries/Sericulture/Bio-chemists/Bio-fertilizers etc.